

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND RECORDING MEDIUM

Satoshi Itoi, et al.

20072

1/9

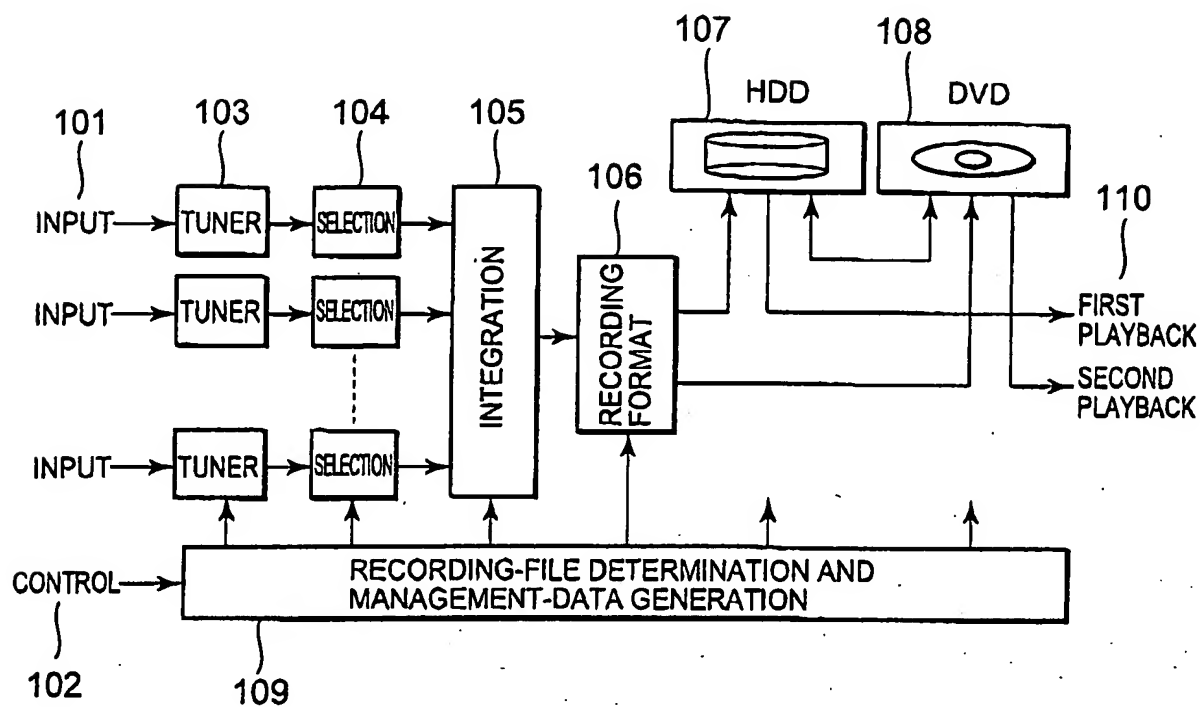


FIG. 1

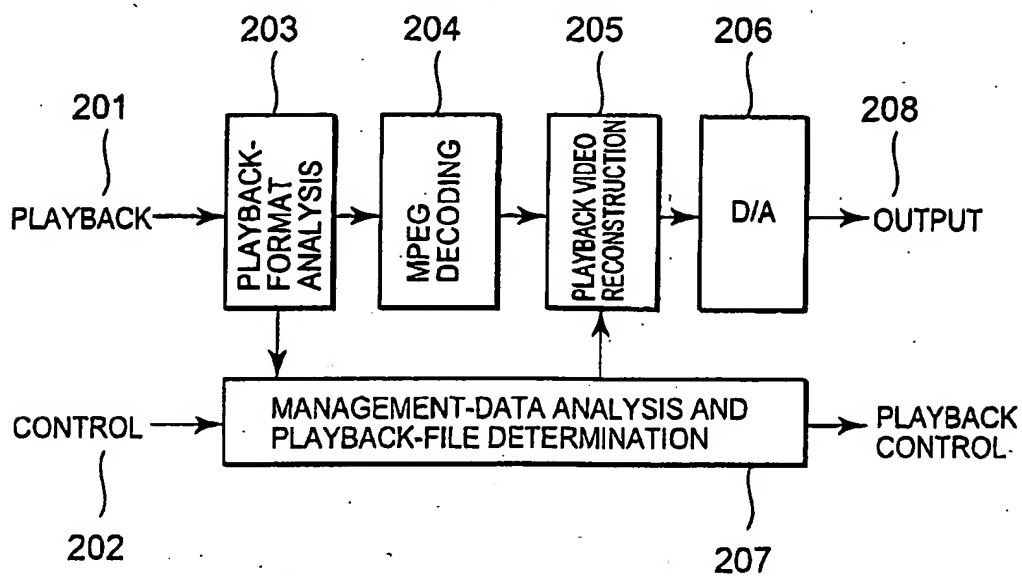


FIG. 2

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

2/9

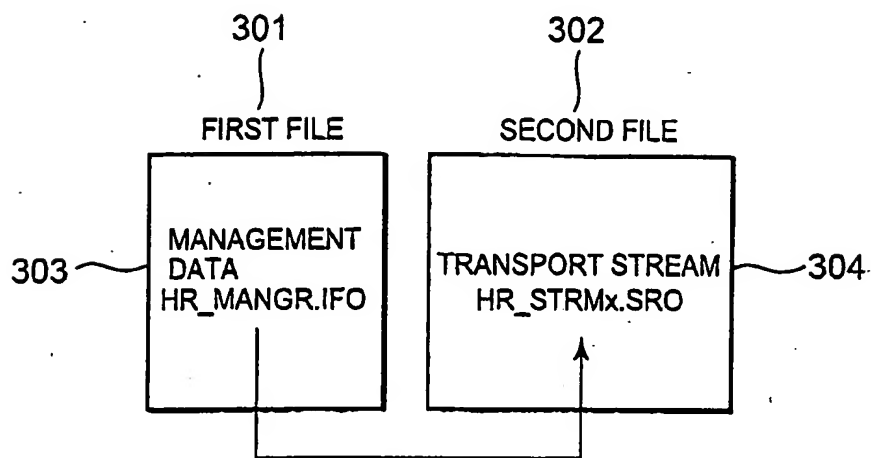


FIG. 3

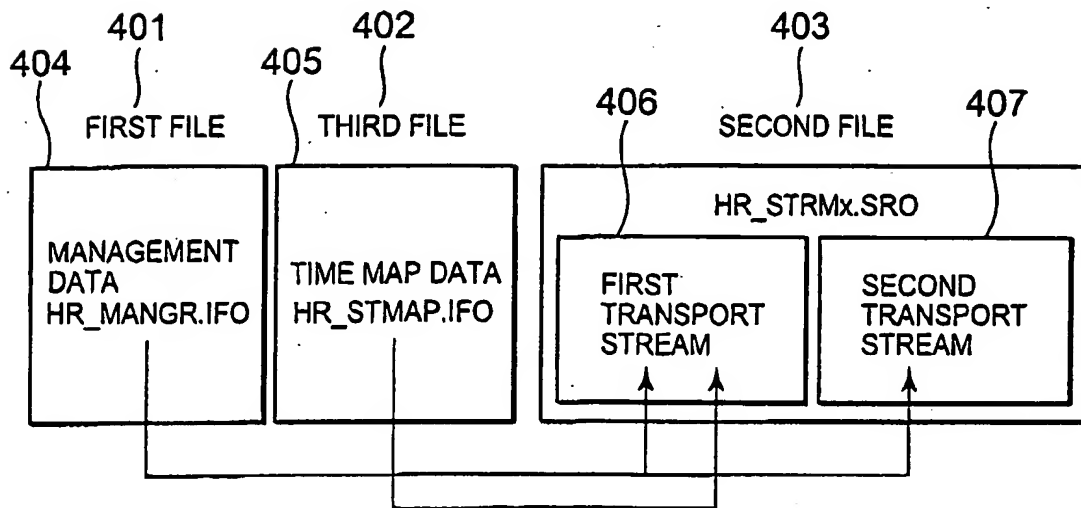


FIG. 4

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

3/9

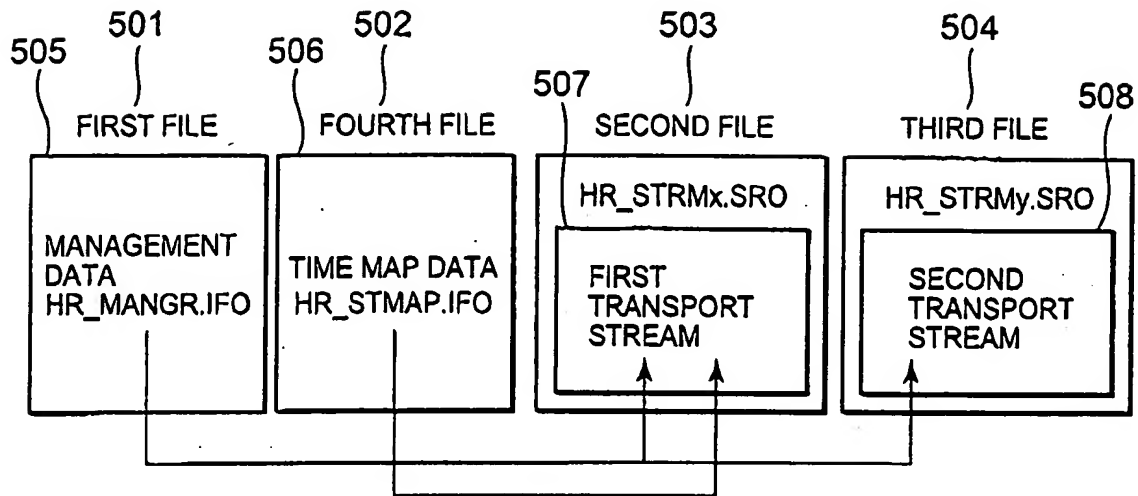


FIG. 5

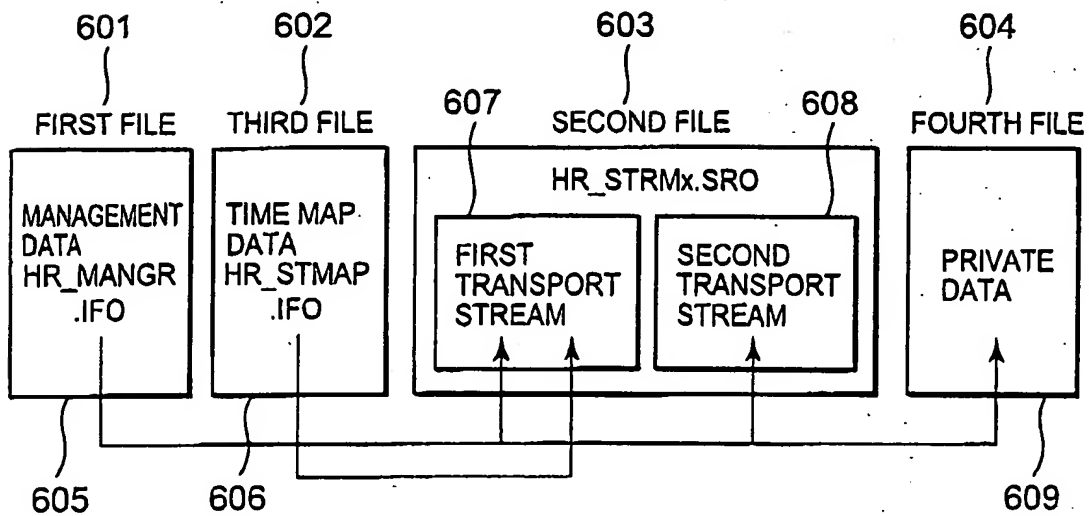


FIG. 6

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

4/9

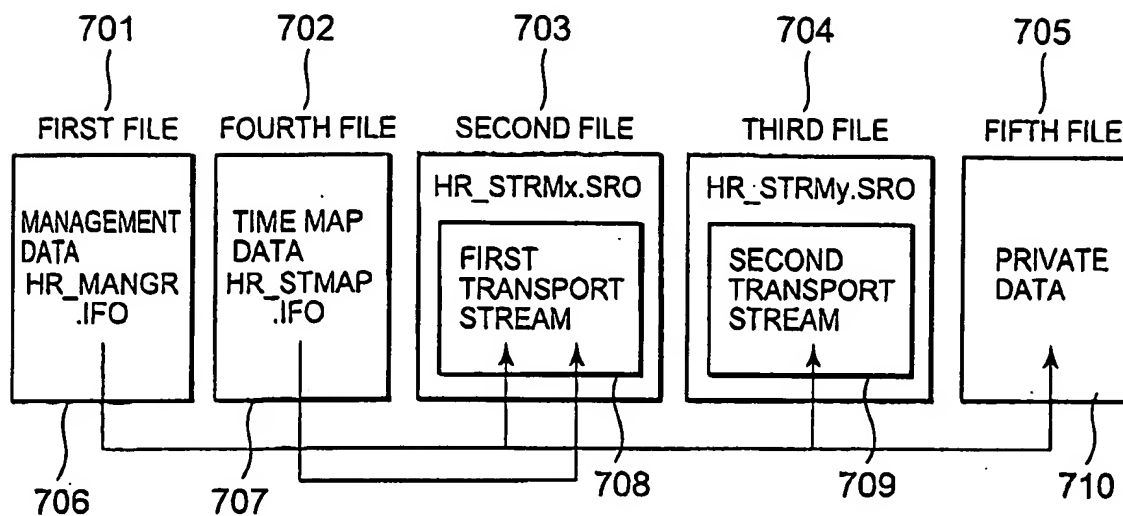


FIG. 7

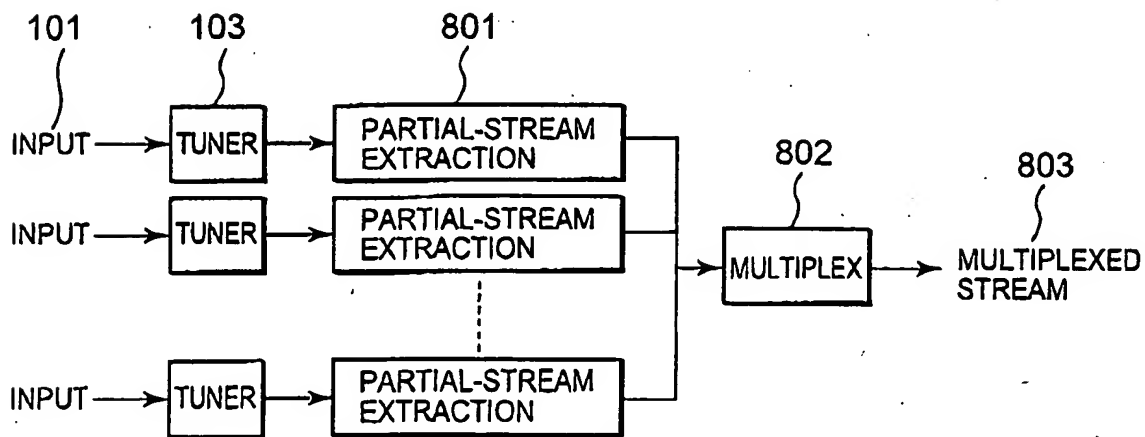


FIG. 8

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

5/9

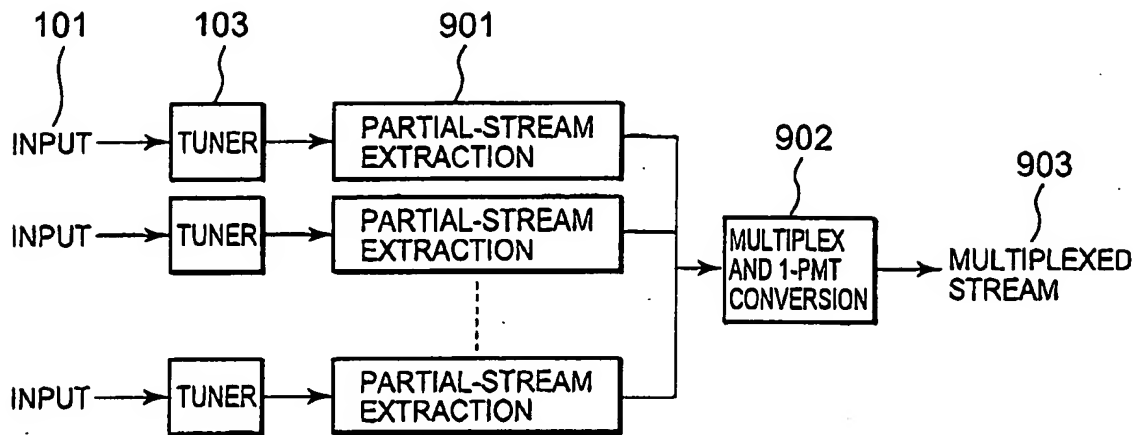


FIG. 9

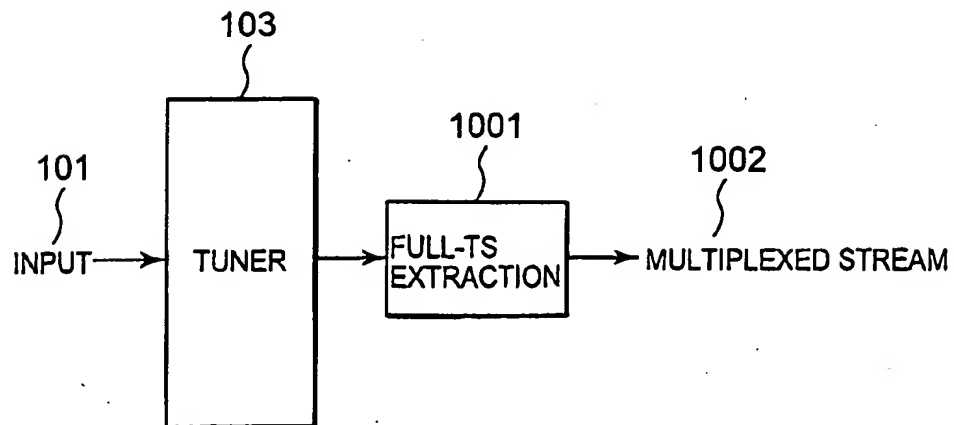


FIG. 10

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

6/9

DVD_HDVR

HR_MANGR.IFO

STREAM FILE INFORMATION TABLE (STM_AVFIT)

SOB STREAM INFORMATION #1 ~ SOB STREAM INFORMATION #n

STM_ATR

STREAM FORMAT

APPLICATION FORMAT

000 : JAPANESE DIGITAL BROADCAST (ARIB) FORMAT

001 : US ATSC FORMAT

010 : EUROPEAN DVB FORMAT

011~111 : RESERVED

COUNTRY CODE : CODE OF COUNTRY WHERE DATA HAS BEEN RECORDED

TS FLAG

00: 1-PMT PARTIAL TS

01: ANOTHER TS (MULTICHANNEL TS)

11: RESERVED

PMT NUMBER

THE NUMBER OF PMTS

CHANNEL NUMBER

THE NUMBER OF MULTIPLEXED CHANNELS IN THE OTHER TS (MULTICHANNEL TS)

TS FORMAT INFORMATION : TS-FORMAT CONFIGURATION INFORMATION

000 : 1-PMT 1-CHANNEL PARTIAL TS

001 : 1-PMT MULTICHANNEL PARTIAL TS

010 : MULTI-PMT MULTICHANNEL PARTIAL TS

011 : 1-PMT FULL TS

000 : MULTI-PMT FULL TS

101~111 : OTHERS

FOR (I=1; I<=CHANNEL NUMBER; I++) {

BROADCAST CHANNEL

000000: NHK GENERAL, 000001: NHK EDUCATIONAL, 000010: NIPPON TELEVISION

000100: FUJI TELEVISION, 000101: TELEVISION ASAHI, 000110: TELEVISION TOKYO

000111: MX TELEVISION, 001000: DIGICAS, 001001: BS COMMUNICATIONS

001010: MEDIA SERVE, 001011: BS NTV RADIO, 010000: PLAT-ONE

BROADCAST VIDEO MODE

000:MPEG-2, 001 : MPEG-1, 010:MPEG-4, 011 : H.264, 100 : WM9

101~111 : RESERVED

BROADCAST AUDIO MODE

000 : MPEG-2 AAC, 001 : Dolby AC-3, 010 : MPEG-1, 011 : MPEG-2 BC

10 : DTS1, 101 : LPCM, 110~111 : RESERVED

FIG. 11A

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

7/9

BROADCAST STILL-PICTURE MODE

000 : JPEG, 001 : PNG, 010~111 : RESERVED

BROADCAST ANIMATION MODE

000 : MNG, 001~111 : RESERVED

TIME MAP FLAG

00 : NOT CONTAINING TIME MAP

01 : CONTAINING TIME MAP

10~11 : RESERVED

PRESENTATION TIME STAMP (PTS) FLAG

00 : NOT CONTAINING PTS

01 : CONTAINING PTS

10~11 : RESERVED

STORAGE BROADCAST FLAG

00 : STANDARD BROADCAST STREAM

01 : STORAGE BROADCAST STREAM

10~11 : RESERVED

HR_STMAP.IFO

TIME MAP TABLE FOR 1-PMT PARTIAL TS

1STREF_SZ : SOBU FIRST REFERENCE PICTURE SIZE

DATABC_PB_TM : SOBU PLAYBACK DURATION (THE NUMBER OF VIDEO FIELDS)

DATABC_SZ : SOBU SIZE (THE NUMBER OF SECTORS)

HR_STRMx.SRO

1-PMT PARTIAL TS

TRANSPORT STREAM WHOSE DETAILS ON AT LEAST ONE OF STREAM, VIDEO, AUDIO,
AND DATA FORMATS ARE RECORDED IN HR_MANGR.IFO FILE AND WHOSE TIME
MAP IS RECORDED IN HR_STMAP.IFO OR HR_STRMx.SRO FILE

ANOTHER TS (MULTICHANNEL TS)

TRANSPORT STREAM WHOSE DETAILS ON AT LEAST ONE OF STREAM, VIDEO, AUDIO,
AND DATA FORMATS ARE RECORDED IN HR_MANGR.IFO FILE AND
WHOSE TIME MAP IS NOT RECORDED

HR_EXTBC.DAT

PRIVATE TS WHOSE DETAILS ON VIDEO, AUDIO, OR DATA FORMAT ARE UNKNOWN,
USER DATA, OR ANOTHER STREAM

FIG. 11B

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

8/9

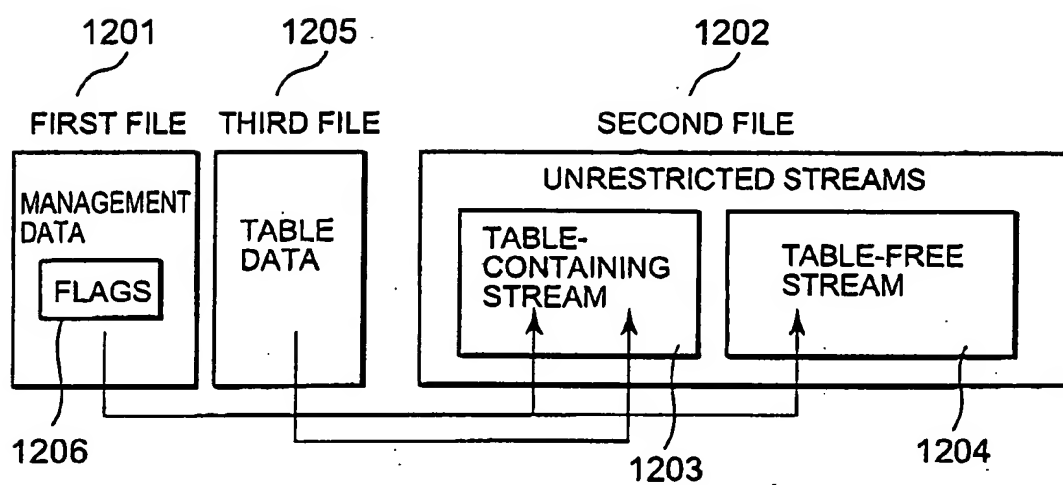


FIG. 12

DATA RECORDING METHOD, DATA PLAYBACK APPARATUS, AND
RECORDING MEDIUM

Satoshi Itoi, et al.

20072

9/9

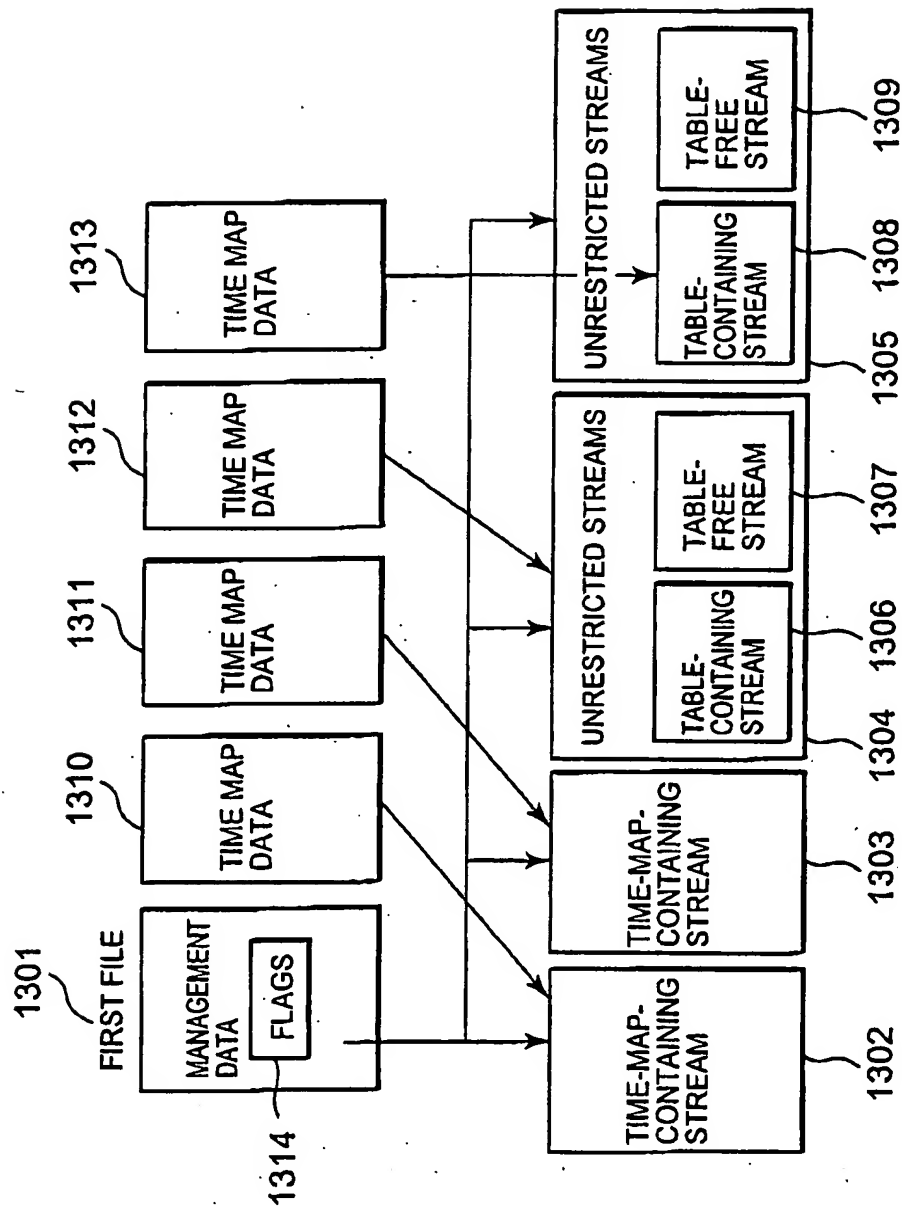


FIG. 13